

Title (en)

Bottle for a pump dispenser and use of a bottle

Title (de)

Flasche für einen Pumpspender und Verwendung einer Flasche

Title (fr)

Bouteille pour distributeur à pompe et utilisation d'une bouteille

Publication

EP 2737821 A1 20140604 (EN)

Application

EP 12195107 A 20121130

Priority

EP 12195107 A 20121130

Abstract (en)

It is provided a bottle for a pump dispenser, comprising a bottle body for bordering a filling volume, wherein the bottle body comprises a bottom part for closing the filling volume at the bottom, the bottom part comprising a mainly ring-shaped stand face for placing the bottle onto a ground, a centre part arranged radially inside the stand face, wherein the centre part is formed mainly convex at an inside face pointing towards the filling volume and the centre part is formed mainly concave at an outside face pointing away from the filling volume, a channel part for accommodating a dip tube of a pump dispenser pump, wherein the channel part is formed as a deepening at the inside face of the centre part and the channel part is formed as a protrusion at the outside face of the centre part, and at least one stiffening rib connected with the outside face of the centre part and a side face of the channel part outside the filling volume. Due to the forming of the centre part and the channel part as well as due to the provided stiffening rib(s) the bottom part comprises a significantly increased stiffness against popping out the bottom part of the bottle body at increasing inside gas pressure, so that the filling volume of the bottle body may collect a higher amount of out-gassed components of a liquid over a longer storing term.

IPC 8 full level

A45D 34/00 (2006.01); **A45D 19/02** (2006.01); **B05B 11/00** (2006.01); **B65D 1/02** (2006.01)

CPC (source: EP US)

A45D 19/02 (2013.01 - EP US); **A45D 34/00** (2013.01 - EP); **B05B 11/0037** (2013.01 - EP US); **B65D 1/0261** (2013.01 - EP); **A45D 2200/054** (2013.01 - EP)

Citation (applicant)

EP 2017011 A1 20090121 - GAPLAST GMBH [DE]

Citation (search report)

- [A] WO 2012029692 A1 20120308 - KAO CORP [JP], et al
- [A] US 2007181605 A1 20070809 - YANG DAVID U [US]
- [A] AU 6812974 A 19751023 - ADVANCE IND LTD
- [A] WO 2011075657 A2 20110623 - PROCTER & GAMBLE [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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